

CLAIMS

1. A gasket unit (1) for a rolling bearing supported journal bearing (2) inside a bearing bushing (3) for a universal joint, comprising a reinforced main seal (8) inserted into a bore of the bearing bushing (3) in a torque-proof manner, a front seal (9) axially positioned in front of the main seal (8), connected in a torque-proof manner to the journal (4), and a spring washer (10) arranged between the main seal (8) and a face (23) of rollers (5) of the bearing,

- the main seal (8) being pressed in a friction-locked manner via a cylindrical section (17) of a reinforcement (11) into the bore at an interior wall of the bearing bushing (3) and comprising at least one sealing lip (18, 19), being provided on a radially inwardly facing flange (14) of the reinforcement (11), said sealing lip is supported on the journal (4) in a sealing manner;

- the front seal (9) covering an annular gap (6) between the bearing bushing (3) and the journal (4);

- the spring washer (10) being supported on an outside thereof on an area of the reinforcement (11) of the main seal (8) that is coated with a seal material (15), and on an inside on the face (23) of the rollers (5),

wherein in a mounted state the main seal (8) is positioned via an angled end section (12) of the reinforcement (11) supported on an interior wall (7) of the bearing bushing (3), and the main seal (8) includes two axially spaced apart sealing lips (18, 19), which are sealingly supported on a section (20) of the journal and have a same diameter as the journal (4), with the first sealing lip (19) facing the front seal (9) having located on an outside thereof a tubular spring (21), and the front seal (9), connected in a form-fitting manner with the bearing bushing (3) in an area of a radially separated end section (29), forming a labyrinth seal (3), includes a sealing lip (28), which is located inside of the reinforcement (11) of the main seal (8).

2. A gasket unit according to claim 1, wherein the section (12) at the end of the reinforcement (11) engages in a form-fitting manner an annular groove (13) of the bearing bushing (3).

3. A gasket unit according to claim 1, wherein a roller side of the radially inwardly facing flange (14) of the reinforcement (11), is coated with an elastic seal material (15) on a side facing the spring washer (10).

4. A gasket unit according to claim 3, wherein the seal material (15) covering the face of the flange (14) radially extends over an exterior contour of a cylindrical section (17) of the reinforcement (11), and thus seals a sealing gap (16) in a mounted position of the main seal (8), located between the interior wall of the bearing bushing (3) and the cylindrical section (17) of the reinforcement (11).

5. A gasket unit according to claim 1, wherein the first sealing lip (19) of the main seal (8) enclosed by the tubular spring (21) is provided with a triangular cross-sectional profile and the corresponding second sealing lip (18) has a rectangular profile.

6. A gasket unit according to claim 5, wherein the sealing lips (18, 19) are separated by a diagonally extending groove (24) having a rounded end.

7. A gasket unit according to claim 6, wherein the groove (24) is provided as a reservoir of lubricants for the journal bearing (2).

8. A gasket unit according to claim 1, wherein the front seal (9) is made exclusively from a seal material (15) and/or from an elastic material, and is positioned at a section (25) of the journal (4) having a greater diameter than the section (20) of the journal (4) on which the sealing lips (18, 19) are supported.

9. A gasket unit according to claim 1, wherein in a mounted position, a radially separated end section (29) of the bearing bushing (3) engages an axially oriented, U-shaped recess (26) of the front seal (9), which includes an outside rim (27) and an inside sealing lip (28).
10. A gasket unit according to claim 9, wherein the front seal (9) is provided at an end of the rim (27) with a radially inwardly facing projection (31) that engages a circumferential groove (32) of the end section (29) of the bearing bushing (3).
11. A gasket unit according to claim 8, wherein the sealing lip (28) of the front seal (9) is supported in a non-positive manner at an inside of the reinforcement (11) of the main seal (8).
12. A gasket unit according to claim 11, wherein the sealing lip (28) of the front seal (9) is provided with at least one axially extending groove (37) in an area of a contact zone (36).
13. A gasket unit according to claim 8, wherein the front seal (9) includes an axial rim (33) on a side opposite the main seal (8), said rim is supported in a mounted state on a shoulder (34) of the journal (4).
14. A gasket unit according to claim 8, wherein an outside diameter of the bearing bushing (3) is identical or larger than an outside diameter of the front seal (9).